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October 31, 2017

AWMD/APCO

VIA CERTIFIED MAIL # 9414 8108 9876 5000 5407 13

Director
Air and Waste Management Division
11201 Renner Boulevard
Lenexa, Kansas 66219

RE:

Initial Annual Report (August 2, 2016 to August 1, 2017)

NSPS Subpart OOOOa Tapstone Energy, LLC

Kansas

Dear Sir/Madam:

Tapstone Energy, LLC (Tapstone) owns and operates well sites in Kansas subject to requirements under 40 CFR §60.5360a-5499a, NSPS Subpart OOOOa. In accordance with 40 CFR §60.5420a(b), Tapstone is submitting this annual report for each well site affected facility. The report covers the period from August 2, 2016 to August 1, 2017. A list of each affected well site is shown below:

			NSPS Subpart OOOOa Source			
			Category			
Site Name	API Number	Lat/Long	Well Completion	Well Site Fugitive Emission Survey	Pneumatic Pump	
Carothers 17-33-7 1H Pad	15077221650000	37.159415094, -98.109405597		x		
Diel Farms 15-34-9 1H Pad	15077221550000	37.080400997, -98.276542657		х		
Diel Farms 15-34-9 2H Pad	15077221610000	37.080442056, -98.2864339		x		
Kennedy 14-34-9 1H Pad	15077221620000	37.080401207, -98.266807939		x		
Leann 21-34-9 2H Pad	15077221580000	37.065945956, -98.309214262		x		
Leech 16-34-9 1H Pad	15077221640000	37.080471181, -98.294797667		×		
Mark 25-34-9 2H Pad	15077221590000	37.051184581, -98.253017194		Х		
Salsberry 17-34-7 1H and Salsberry 20-34-7 1H Pad	15077221520000 15077221480000	37.080189656, -98.106043689		х		
Sylvia 23-34-9 1H Pad	15077221600000	37.065766132, -98.25432516		х		

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40 CFR §60.5420a(b)(7) - Collection of Fugitive Emission Components

Due to the regulatory uncertainty caused by multiple actions of the U.S. Environmental Protection Agency ("EPA") and U.S. Court of Appeals for the D.C. Circuit ("Court"), Tapstone experienced multiple deviations during the reporting period on fugitive emission monitoring. The actions taken by EPA and the Court are listed as follows:

- On May 26, 2017, EPA published a 90-stay of the fugitive emission requirements under NSPS Subpart OOOOa.
- On June 16, 2017, EPA published a proposal to delay the fugitive leak requirements under NSPS Subpart OOOOa for two years while the agency performed a regulatory review.
- On July 3, 2017, the Court vacated the 90-day stay that EPA published on May 26, 2017.
- On July 13, the Court granted EPA a 14-day delay on vacating the 90-day stay.

Considering the regulatory actions and court decisions, Tapstone maintains that the fugitive emission requirements under NSPS Subpart OOOOa were not in effect between May 26, 2017 and July 3, 2017, or between July 13, 2017 and July 27, 2017. Tapstone is unclear how these time-gaps impact the regulatory requirements associated with leak surveys performed during that time and asks that the EPA exercise enforcement discretion. The deviations reported were not deliberate or intentional, but a direct result of regulatory uncertainty. Once the rule appeared to be back in effect, Tapstone began to take immediate and reasonable action to correct any leaks discovered. As a result of these actions, Tapstone will not realize a significant economic or competitive advantage.

A summary of fugitive emission deviations is included as Attachment 1.

Records required by 40 CFR §60.5420a(b)(7) for each survey are included as Attachment 2.

Please contact Jaron Hill at (405) 702-1646 or by email at jhill@tapstoneenergy.com with any questions regarding this report.

I certify, based on information and belief formed after reasonable inquiry, the statements and information in this document are true, accurate, and complete.

Sincerely,

Rick Hughes

Vice President - Operations

Attachments:

- 1. Summary of Fugitive Emission Deviations
- 2. Fugitive Emission Reports

CC: Director

Bureau of Air

Kansas Department of Health and Environment

1000 SW Jackson, Suite 310 Topeka, KS 66612-1366

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Attachment 1 Summary of Fugitive Emission Deviations

Tapstone Energy NSPS Subpart OOOOa Annual Report

Summary of Fugitive Emission Deviations Kansas

Reporting Period: August 2, 2016 to August 1, 2017

Facility	Tag No.	Deviation Type	Due Date	Corrective Action Date
Diel Farms 15-34-9 1H	832	Late Repair	6/29/2017	Pending
Pad	Enardo	Late Repair	6/29/2017	10/31/2017
	817	Late Verification	7/9/2017	7/13/2017
	819	Late Repair	6/29/2017	10/2/2017
Diel Farms 15-34-9 2H	820	Late Repair	6/29/2017	10/26/2017
Pad	821	Late Repair	6/29/2017	10/26/2017
	822	Late Verification	7/9/2017	7/14/2017
Kennedy 14-34-9 1H Pad	834	Late Repair	6/29/2017	8/9/2017
Kenneuy 14-54-9 In Pau	834	Late Verification	9/8/2017	10/2/2017
	Enardo	Late Repair	6/29/2017	10/31/2017
	829	Late Repair	6/29/2017	9/7/2017
1 21 24 0 2H Dad	827	Late Verification	7/9/2017	7/14/2017
Leann 21-34-9 2H Pad	830	Late Verification	7/9/2017	7/14/2017
	831	Late Verification	7/9/2017	7/14/2017
	823	Late Repair	6/29/2017	10/2/2017
1 46 24 24 12	824	Late Repair	6/29/2017	Pending
Leech 16-34-9 1H Pad	825	Late Repair	6/29/2017	10/26/2017
	826	Late Verification	7/9/2017	7/14/2017
.4	836	Late Repair	6/29/2017	10/22/2017
Mark 25-34-9 2H Pad	835	Late Repair	6/29/2017	10/26/2017
····				
Salsberry 17-34-7 1H	804	Late Repair	6/29/2017	·
and Salsberry 20-34-7	839	Late Repair	6/29/2017	· · · · · · · · · · · · · · · · · · ·
1H Pad	840	Late Repair	6/29/2017	9/12/2017
	841	Late Repair	6/29/2017	9/12/2017
	837	Late Repair	6/29/2017	10/26/2017
Sylvia 23-34-9 1H Pad	Enardo	Late Repair	6/29/2017	10/31/2017
	812	Late Verification	7/9/2017	7/14/2017

Attachment 2 Fugitive Emission Reports



Requirement	Comment/Answer		
Tapstone Energy			
100 East Main Street	na		
Oklahoma City, OK 73104			
Carothers 17-33-7 1H	H C KE- Mell #130007		
37.15937N. 98.10944W	Harper County, KS; Well #130607		
(A) Date of the survey.	30-May-17		
(B) Beginning and end time of the survey.	8:00am-9:10am		
(C) Name of operator(s) performing survey. You must note the training and experience of the operator.	Greg Stroscher		
(D) Monitoring instrument used.	FLIR GF320		
(E) When optical gas imaging is used to perform the survey, one or more digital photographs or videos, captured from the optical gas imaging instrument used for conduct of monitoring, of each required monitoring survey being performed. The digital photograph must include the date the photograph was taken and the latitude and longitude of the collection of fugitive emissions components at a well site or collection of fugitive emissions components at a compressor station imbedded within or stored with the digital file. As an alternative to imbedded latitude and longitude within the digital file, the digital photograph or video may consist of an image of the monitoring survey being performed with a separately operating GPS device within the same digital picture or video, provided the latitude and longitude output of the GPS unit can be clearly read in the digital image.	Tag801.jpg Tag802.jpg Tag803.jpg Tag(enardo).jpg Tag(enardo oil tank).jpg		
(F) Fugitive emissions component identification when Method 21 is used to perform the monitoring survey.	N/A		
(G) Ambient temperature, sky conditions, and maximum wind speed at the time of the survey.	81°F, cloudy, wind 2mph SW		
(H) Any deviations from the monitoring plan or a statement that there were no deviations from the monitoring plan.	no		
(I) Documentation of each fugitive emission, including the information specified in paragraphs (c)(15)(ii)(I)(1) through (12) of this section.	Tag801 - Murphy level controller, compressor scrubber Tag802 - regulator vent, knockout Tag803 - thief hatch, water tank 2 Tag(enardo) - enardo, water tank battery Tag(enardo oii tank) - enardo, oii tank Battery		
(1) Location.	37.15937N, 98.10944W		
(2) Any deviations from the monitoring plan or a statement that there were no deviations from the monitoring plan.	No deviations from monitoring plan		
(3) Number and type of components for which fugitive emissions were detected.	5		
(4) Number and type of difficult-to-monitor and unsafe-to-monitor fugitive emission components monitored.	0		
(5) Instrument reading of each fugitive emissions component that requires repair when Method 21 is used for monitoring	Not Applicable		
(6) Number and type of fugitive emissions components that were not repaired as required in §60.5397a(h).	0		
(7) Number and type of components that were tagged as a result of not being repaired during the monitoring survey when the fugitive emissions were initially found as required in \$60.5397a(h)(3)(ii).	3 - Tag802, Tag(enardo), Tag(enardo oil tank)		
(8) If a fugitive emissions component is not tagged, a digital photograph or video of each fugitive emissions component that could not be repaired during the monitoring survey when the fugitive emissions were initially found as required in §60.5397a(h)(3)(ii). The digital photograph or video must clearly identify the location of the component that must be repaired. Any digital photograph or video required under this paragraph can also be used to meet the requirements under paragraph (c)(15)(ii)(E) of this section, as long as the photograph or video is taken with the optical gas imaging instrument, includes the date and the latitude and longitude are either imbedded or visible in the picture.	Tag801repair.jpg Tag803repair.jpg		
(9) Repair methods applied in each attempt to repair the fugitive emissions components.	tbd		
(10) Number and type of fugitive emission components placed on delay of repair and explanation for each delay of repair.			
(11) The date of successful repair of the fugitive emissions component.	30-May-17		
(12) Instrumentation used to resurvey a repaired fugitive emissions component that could not be repaired during the	FLIR GF320		
nitial fugitive emissions finding.	FLIR GF320		
(iii) For the collection of fugitive emissions components at a compressor station, if a monitoring survey is waived under §60.5397a(g)(5), you must maintain records of the average calendar month temperature, including the source of the information, for each calendar month of the quarterly monitoring period for which the monitoring survey was waived.	No Compressor Stations		

Carothers 17-33-7 1H Pad

	Carothers 17-33-7 1H Pad								
		10-10-11-11-11-11-11-11-11-11-11-11-11-1		TANK I DE LA COLONIA DE LA COL		Repair Verification Method	Date leak is determined		
Leak Tag ID	Location Description	Date of Leak IR Survey	Repair/Replacement Task	Date of Leak Repair	Repair Verification Date		to be on Delay of Repair	DOR Reason Description	DOR Repair Date
roak tel to	Escatori Sascipion					Bubble)	(DOR)		A STATE OF THE STA
							(5-5.17)		
801	Murphy level controller, compressor scrubber	5/30/2017		6/24/2017	7/13/2017	IR Camera			
801	Murphy level controller, compressor scrubbes	5/30/2017		6/24/2017	7/13/2017	IR Camera	 		
802	regulator vent, knockout					In Camera	 		
803	thief hatch, water tank 2	5/30/2017		6/24/2017	//13/201/	IR Camera			
Enardo (oil)	enardo, oil tank Battery	5/30/2017		6/24/2017	7/13/2017	IR Camera			
Enardo						IR Camera	1 1		
(water)	enardo, water tank battery	5/30/2017		6/24/2017	7/13/2017	III Calliela			
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Requirement	Comment/Answer
Tapstone Energy	
100 East Main Street	na
Oklahoma City, OK 73104	
Diel Farms 15-34-9 1H	Harper County, KS; Well #130494 & #130471
37.08036N, 98.28643W	
A) Date of the survey.	30-May-17
B) Beginning and end time of the survey.	12:40pm-1:05pm
C) Name of operator(s) performing survey. You must note the training and experience of the operator.	Greg Stroscher
D) Monitoring instrument used.	FLIR GF320
(E) When optical gas imaging is used to perform the survey, one or more digital photographs or videos, captured fro the optical gas imaging instrument used for conduct of monitoring, of each required monitoring survey being perform. The digital photograph must include the date the photograph was taken and the latitude and longitude of the collection of fucitive emissions components at a well site or collection of fucitive emissions components at a compressor station	R32.jpg Tag(enardo).jpg Tag817.jpg
mbedded within or stored with the digital file. As an alternative to imbedded latitude and longitude within the digital file, he digital photograph or video may consist of an image of the monitoring survey being performed with a separately operating GPS device within the same digital picture or video, provided the latitude and longitude output of the GPS unit can be clearly read in the digital image.	
(F) Fugitive emissions component identification when Method 21 is used to perform the monitoring survey.	Not Applicable
G) Ambient temperature, sky conditions, and maximum wind speed at the time of the survey.	78°F, wind 8mph W
H) Any deviations from the monitoring plan or a statement that there were no deviations from the monitoring plan.	none
i) Documentation of each fugitive emission, including the information specified in paragraphs (c)(15)(ii)(i)(1) through 12) of this section.	Tag832 - Murphy level controler, compressor scrubber Tag(enardo) - enardo, tank battery Tag817 - Thief Hatch, Water tank
1) Location.	37.08036N, 98.28643W
2) Any deviations from the monitoring plan or a statement that there were no deviations from the monitoring plan.	No deviations from monitoring plan
3) Number and type of components for which fugitive emissions were detected.	3 - Murphy Level Controller, Thief Hatch, Enardo Valve
4) Number and type of difficult-to-monitor and unsafe-to-monitor fugitive emission components monitored.	0
5) Instrument reading of each fugitive emissions component that requires repair when Method 21 is used for monitoring	Not Applicable
6) Number and type of fugitive emissions components that were not repaired as required in §60.5397a(h).	0
7) Number and type of components that were tagged as a result of not being repaired during the monitoring survey when the fugitive emissions were initially found as required in §60.5397a(h)(3)(ii).	3
(8) If a fugitive emissions component is not tagged, a digital photograph or video of each fugitive emissions component that could not be repaired during the monitoring survey when the fugitive emissions were initially found as required in \$60.5397a(h)(3)(ii). The digital photograph or video must clearly identify the location of the component that must be repaired. Any digital photograph or video required under this paragraph can also be used to meet the requirements under paragraph (c)(15)(ii)(E) of this section, as long as the photograph or video is taken with the optical gas imaging instrument, includes the date and the latitude and longitude are either imbedded or visible in the picture.	
(10) Number and type of fugitive emission components placed on delay of repair and explanation for each delay of epair.	0
11) The date of successful repair of the fugitive emissions component.	tbd
12) Instrumentation used to resurvey a repaired fugitive emissions component that could not be repaired during the nitial fugitive emissions finding.	FLIR GF320
(iii) For the collection of fugitive emissions components at a compressor station, if a monitoring survey is waived under \$60.5397a(g)(5), you must maintain records of the average calendar month temperature, including the source of the nformation, for each calendar month of the quarterly monitoring period for which the monitoring survey was waived.	No Compressor Stations

Diel Farms 15-34-9 1H Pad

Leak Tag ID	Location Description	Date of Leak IR Survey	Repair/Replacement Task	Date of Leak Repair	Repair Verification Date	Repair Verification Method (IR Camera or Soap and Bubble)	Date leak is determined to be on Delay of Repair (DOR)	DOR Reason Description	DOR Repair Date
832	Tag832 - Murphy level controler, compressor scrubber	5/30/2017							
Enardo	Tag(enardo) - enardo, tank battery	5/30/2017	Removed Flare Control	10/31/2017	N/A	N/A			
817	Tag817 - Thief Hatch, Water tank	5/30/2017		6/9/2017	7/13/2017	IR Camera			
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Requirement	Comment/Answer		
Tapstone Energy			
100 East Main Street	na		
Oklahoma City, OK 73104			
Diel Farms 15-34-9 2H	Harper County, KS; Well #130494 & #130471		
37.08036N, 98.28643W			
(A) Date of the survey.	30-May-17		
(B) Beginning and end time of the survey.	1:10pm-2:00pm		
(C) Name of operator(s) performing survey. You must note the training and experience of the operator.	Greg Stroscher		
(D) Monitoring instrument used.	FLIR GF320		
(E) When optical gas imaging is used to perform the survey, one or more digital photographs or videos, captured from the optical gas imaging instrument used for conduct of monitoring, of each required monitoring survey being perform. The digital photograph must include the date the photograph was taken and the latitude and longitude of the collectil of fugitive emissions components at a well site or collection of fugitive emissions components at a compressor station imbedded within or stored with the digital file. As an alternative to imbedded latitude and longitude within the digital file, the digital photograph or video may consist of an image of the monitoring survey being performed with a separately operating GPS device within the same digital picture or video, provided the latitude and longitude output of the GPS unit can be clearly read in the digital image.			
(F) Fugitive emissions component identification when Method 21 is used to perform the monitoring survey.	Not Applicable		
(G) Ambient temperature, sky conditions, and maximum wind speed at the time of the survey.	81°F, wind 2mph SW		
(H) Any deviations from the monitoring plan or a statement that there were no deviations from the monitoring plan.	none		
(f) Documentation of each fugitive emission, including the information specified in paragraphs (c)(15)(ii)(i)(f) through (12) of this section.	Tag818 - Kimray regulator vent, compressor suction Tag819 - welr rod cap gasket, heater treater Tag820 - Murphy level controller, compressor scrubber Tag821 - Murphy level controller, compressor scrubber Tag822 - Murphy level controller, compressor scrubber		
(1) Location.	37.08036N, 98.28643W		
(2) Any deviations from the monitoring plan or a statement that there were no deviations from the monitoring plan.	No deviations from monitoring plan		
(3) Number and type of components for which fugitive emissions were detected.	5 -Kimray regulator, weir rod gasket, Murphy Level Controller's		
Number and type of difficult-to-monitor and unsafe-to-monitor fugitive emission components monitored. Instrument reading of each fugitive emissions component that requires repair when Method 21 is used for monitoring.	Not Applicable		
(6) Number and type of fugitive emissions components that were not repaired as required in §60.5397a(h).	0		
(7) Number and type of components that were tagged as a result of not being repatired during the monitoring survey when the fugitive emissions were initially found as required in \$60.5397a(h)(3)(ii).	s		
(8) If a fugitive emissions component is not tagged, a digital photograph or video of each fugitive emissions component that could not be repaired during the monitoring survey when the fugitive emissions were initially found as required in §60.5397a(h)(3)(ii). The digital photograph or video must clearly identify the location of the component that must be repaired. Any digital photograph or video required under this paragraph can also be used to meet the requirements under paragraph (c)(15)(ii)(E) of this section, as long as the photograph or video is taken with the optical gas imaging instrument, includes the date and the latitude and longitude are either imbedded or visible in the picture.			
(10) Number and type of fugitive emission components placed on delay of repair and explanation for each delay of repair.	0		
(11) The date of successful repair of the fugitive emissions component.	tbd		
(12) Instrumentation used to resurvey a repaired fugitive emissions component that could not be repaired during the initial fugitive emissions finding.	FLIR GF320		
(iii) For the collection of fugitive emissions components at a compressor station, if a monitoring survey is waived under \$60.5397a(g)(5), you must maintain records of the average calendar month temperature, including the source of the information, for each calendar month of the quarterly monitoring period for which the monitoring survey was waived.	No Compressor Stations		

Diel Farms 15-34-9 2H Pad

Leak Tag ID	Location Description	Date of Leak IR Survey	Repair/Replacement Task	Date of Leak Repair	Repair Verification Date	Repair Verification Method (IR Camera or Soap and Bubble)	Date leak is determined to be on Delay of Repair (DOR)	DOR Reason Description	DOR Repair Date
818	Tag818 - Kimray regulator vent, compressor suction	5/30/2017					Follow Fill		
819	Tag819 - weir rod cap gasket, heater treater	5/30/2017		10/2/2017	10/2/2017	IR Camera			
820	Tag820 - Murphy level controller, compressor scrubber	5/30/2017		10/26/2017	10/26/2017	Soap and Bubble			
821	Tag821 - Murphy level controller, compressor scrubber	5/30/2017		10/26/2017	10/26/2017	Soap and Bubble			
822	Tag822 - Murphy level controller, compressor scrubber	5/30/2017		6/9/2017	7/14/2017	IR Camera			
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Requirement	Comment/Answer			
Tapstone Energy				
100 East Main Street	na			
Oklahoma City, OK 73104				
Kennedy 14-34-9-1H	Harper County, KS; Well #130497			
37.08036N, 98.26682W				
(A) Date of the survey.	30-May-17			
(B) Beginning and end time of the survey.	12:00pm-12:35pm			
(C) Name of operator(s) performing survey. You must note the training and experience of the operator.	Greg Stroscher			
(D) Monitoring instrument used.	FLIR GF320			
(E) When optical gas imaging is used to perform the survey, one or more digital photographs or videos, captured from the optical gas imaging instrument used for conduct of monitoring, of each required monitoring survey being performed. The digital photograph must include the date the photograph was taken and the latitude and longitude of the collection of fugitive emissions components at a well site or collection of fugitive emissions components at a compressor station imbedded within or stored with the digital file. As an alternative to imbedded latitude and longitude within the digital file,	Tag814.jpg Tag833.jpg Tag834.jpg Tag815.jpg Tag816.j			
the digital photograph or video may consist of an image of the monitoring survey being performed with a separately	Tag(enardo).jpg			
operating GPS device within the same digital picture or video, provided the latitude and longitude output of the GPS unit				
can be clearly read in the digital image.				
(F) Fugitive emissions component identification when Method 21 is used to perform the monitoring survey.	0			
(G) Ambient temperature, sky conditions, and maximum wind speed at the time of the survey.	76°F, wind 3mph NW			
(H) Any deviations from the monitoring plan or a statement that there were no deviations from the monitoring plan.	none			
(I) Documentation of each fugitive emission, including the information specified in paragraphs (c)(15)(i)(I)(1) through (12) of this section.	Tag814 - 1"x2" bushing, compressor discharge Tag833 - Murphy level controler, compressor scrubber Tag834 - Murphy level controler, compressor scrubber Tag815 - Compression elbow, knockout regulator Tag816 - 25" "T", knockout regulator Tag(enardo) - enardo, tank battery			
(1) Location.	37.08036N, 98.26682W			
(2) Any deviations from the monitoring plan or a statement that there were no deviations from the monitoring plan.	No deviations from monitoring plan			
(3) Number and type of components for which fugitive emissions were detected.	6			
(4) Number and type of difficult-to-monitor and unsafe-to-monitor fugitive emission components monitored.	0			
(5) Instrument reading of each fugitive emissions component that requires repair when Method 21 is used for monitoring.	Not Applicable			
(6) Number and type of fugitive emissions components that were not repaired as required in \$60.5397a(h).	0			
(7) Number and type of components that were tagged as a result of not being repaired during the monitoring survey when the fugitive emissions were initially found as required in \$60.5397a(h)(3)(ii).	4 - Tag814, Tag833, Tag834, Tag(enardo)			
(8) If a fugitive emissions component is not tagged, a digital photograph or video of each fugitive emissions component that could not be repaired during the monitoring survey when the fugitive emissions were initially found as required in \$60.5397a(h)(3)(ii). The digital photograph or video must clearly identify the location of the component that must be repaired. Any digital photograph or video required under this paragraph can also be used to meet the requirements under paragraph (c)(15)(ii)(E) of this section, as long as the photograph or video is taken with the optical gas imaging instrument, includes the date and the latitude and longitude are either imbedded or visible in the picture.	Tag815repair.jpg Tag816repair.jpg			
(10) Number and type of fugitive emission components placed on delay of repair and explanation for each delay of repair.				
(11) The date of successful repair of the fugitive emissions component.	30-May-17			
(12) Instrumentation used to resurvey a repaired fugitive emissions component that could not be repaired during the initial fugitive emissions finding.	FLIR GF320			
(iii) For the collection of fugitive emissions components at a compressor station, if a monitoring survey is waived under \$60.5397a(g)(5), you must maintain records of the average calendar month temperature, including the source of the information, for each calendar month of the quarterly monitoring period for which the monitoring survey was waived.	No Compressor Stations			

Kennedy 14-34-9 1H Pad

Leak Tag ID	Location Description	Date of Leak IR Survey	Repair/Replacement Task	Date of Leak Repair	Repair Verification Date	Repair Verification Method (IR Camera or Soap and Bubble)	Date leak is determined to be on Delay of Repair (DOR)	DOR Reason Description	DOR Repair Date
814	Tag814 - 1"x2" bushing, compressor discharge	5/30/2017		6/17/2017	7/14/2017	IR Camera			
833	Tag833 - Murphy level controler, compressor scrubber	5/30/2017		6/23/2017	7/14/2017	IR Camera			
834	Tag834 - Murphy level controler, compressor scrubber	5/30/2017		8/9/2017	10/2/2017	IR Camera			
815	Tag815 - Compression elbow, knockout regulator	5/30/2017		5/30/2017	5/30/2017	IR Camera			
816	Tag81625" "T", knockout regulator	5/30/2017		5/30/2017	5/30/2017	IR Camera			
Enardo	Tag(enardo) - enardo, tank battery	5/30/2017	Removed Flare Control	10/31/2017	N/A	N/A			
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	Commont/Annual
Requirement	Comment/Answer
Tapstone Energy	
100 East Main Street	na
Oklahoma City, OK 73104	
LEANN 21-34-9 2H 37.05124N, 98.25319W	Harper County, KS
(A) Date of the survey.	30-May-17
(B) Beginning and end time of the survey.	2:40pm - 3:35pm
(C) Name of operator(s) performing survey. You must note the training and experience of the operator.	Greg Stroscher
(D) Monitoring instrument used.	FLIR GF320
the digital photograph or video may consist of an image of the monitoring survey being performed with a separately operating GPS device within the same digital picture or video, provided the latitude and longitude output of the GPS	Tag828.jpg Tag(enardo).jpg Tag829.jpg Tag831.jpg Tag831.jpg
can be clearly read in the digital image.	
(F) Fugitive emissions component identification when Method 21 is used to perform the monitoring survey.	Not Applicable
(G) Ambient temperature, sky conditions, and maximum wind speed at the time of the survey.	84°F, wind 1mph W
(H) Any deviations from the monitoring plan or a statement that there were no deviations from the monitoring plan.	none
(I) Documentation of each fugitive emission, including the information specified in paragraphs (c)(15)(ii)(I)(1) through (12) of this section.	Tag827 - Murphy level controler, compressor scrubber Tag828 - Kimray regulator vent, compressor suction Tag(enardo) - enardo, tank battery Tag829 - Thief Hatch, water tank Tag830 - Thief Hatch, oil tank 2 Tag831 - Thief Hatch, oil tank 1
(1) Location.	37.05124N, 98.25319W
(2) Any deviations from the monitoring plan or a statement that there were no deviations from the monitoring plan.	No deviations from monitoring plan
(3) Number and type of components for which fugitive emissions were detected.	6 - Murphy Level Controller, Kimray regulator,Enardo Valve, 3 Thief Hatches
(4) Number and type of difficult-to-monitor and unsafe-to-monitor fugitive emission components monitored.	0
(5) Instrument reading of each fugitive emissions component that requires repair when Method 21 is used for monitoring.	Not Applicable
(6) Number and type of fugitive emissions components that were not repaired as required in §60.5397a(h).	0
(7) Number and type of components that were tagged as a result of not being repaired during the monitoring survey when the fugitive emissions were initially found as required in §60.5397a(h)(3)(ii).	6
(8) If a fugitive emissions component is not tagged, a digital photograph or video of each fugitive emissions component that could not be repaired during the monitoring survey when the fugitive emissions were initially found as required in \$60.5397a(h)(3)(ii). The digital photograph or video must clearly identify the location of the component that must be repaired. Any digital photograph or video required under this paragraph can also be used to meet the requirements under paragraph (c)(15)(ii)(E) of this section, as long as the photograph or video is taken with the optical gas imaging instrument, includes the date and the latitude and longitude are either imbedded or visible in the picture.	
(10) Number and type of fugitive emission components placed on delay of repair and explanation for each delay of repair.	0
(11) The date of successful repair of the fugitive emissions component.	tbd
(12) Instrumentation used to resurvey a repaired fugitive emissions component that could not be repaired during the initial fugitive emissions finding.	FLIR GF320
(iii) For the collection of fugitive emissions components at a compressor station, if a monitoring survey is waived under §60.5397a(g)(5), you must maintain records of the average calendar month temperature, including the source of the information, for each calendar month of the quarterly monitoring period for which the monitoring survey was waived.	No Compressor Stations

Leak Tag IO	Location Description	Date of Leak IR Survey	Repair/Replacement Task	Date of Leak Repair	Repair Verification Date	Repair Verification Method (IR Camera or Soap and Bubble)	Date leak is determined to be on Delay of Repair (DOR)	DOR Reason Description	DOR Repair Date	Notes
827	Tag827 - Murphy level controler, compressor scrubber	5/30/2017		6/9/2017	7/14/2017	tR Camera				
	Tag828 - Kimray regulator vent, compressor									2400011
828	suction	5/30/2017								Normal Operation
										No combustor onsite, normal
Enardo	Tag(enardo) - enardo, tank battery	5/30/2017 5/30/2017 5/30/2017	N/A	N/A						venting
829	Tag829 - Thief Hatch, water tank	5/30/2017		9/7/2017	10/2/2017	IR Camera	(1)			
830	Tag830 - Thief Hatch, oil tank 2	5/30/2017		6/9/2017	7/14/2017 7/14/2017	tR Camera				
831	Tag831 - Thief Hatch, oll tank 1	5/30/2017		6/9/2017	7/14/2017	IR Camera				
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Requirement	Comment/Answer
Tapstone Energy	
100 East Main Street	na
Oklahoma City, OK 73104	
Leech 16-34-9 1H	Harper County, KS; Well #130498
37,08041N, 98,29480W	<u> </u>
(A) Date of the survey.	30-May-17
(B) Beginning and end time of the survey.	2:05pm-2:30pm
(C) Name of operator(s) performing survey. You must note the training and experience of the operator.	Greg Stroscher
(D) Monitoring instrument used.	FLIR GF320
(E) When optical gas imaging is used to perform the survey, one or more digital photographs or videos, captured frof the optical gas imaging instrument used for conduct of monitoring, of each required monitoring survey being perform The digital photograph must include the date the photograph was taken and the latitude and longitude of the collectio fugitive emissions components at a well site or collection of fugitive emissions components at a compressor station imbedded within or stored with the digital file. As an alternative to imbedded latitude and longitude within the digital file of the digital photograph or video may consist of an image of the monitoring survey being performed with a separately operating GPS device within the same digital picture or video, provided the latitude and longitude output of the GPS can be clearly read in the digital image.	3823.jpg Tag824.jpg Tag825.jpg Tag826.jpg Tag826.jpg
(F) Fugitive emissions component identification when Method 21 is used to perform the monitoring survey.	Not Applicable
(G) Ambient temperature, sky conditions, and maximum wind speed at the time of the survey.	81°F, wind 6mph E
(H) Any deviations from the monitoring plan or a statement that there were no deviations from the monitoring plan.	none
(I) Documentation of each fugitive emission, including the information specified in paragraphs (c)(15)(i)(!)(1) through (12) of this section. (1) Location.	Tag823 - Kimray regulator vent, compressor suction Tag824 - Murphy level controller, compressor scrubber Tag825 - Murphy level controller, compressor scrubber Tag826 - Murphy level controller, compressor scrubber Tag(enardo) - enardo, tank battery 37.08041N, 98.29480W
(2) Any deviations from the monitoring plan or a statement that there were no deviations from the monitoring plan.	No deviations from monitoring plan
	<u> </u>
(3) Number and type of components for which fugitive emissions were detected.	5 - Murphy Level Controller's, Kimrayregulator, enardo valve
(4) Number and type of difficult-to-monitor and unsafe-to-monitor fugitive emission components monitored.	0
(5) Instrument reading of each fugitive emissions component that requires repair when Method 21 is used for monitoring	
(6) Number and type of fugitive emissions components that were not repaired as required in §60.5397a(h).	0
(7) Number and type of components that were tagged as a result of not being repaired during the monitoring survey when the fugitive emissions were initially found as required in §60.5397a(h)(3)(ii).	5
(8) If a fugilive emissions component is not tagged, a digital photograph or video of each fugitive emissions component that could not be repaired during the monitoring survey when the fugitive emissions were initially found as required In §50.5397a(h)(3)(ii). The digital photograph or video must clearly identify the location of the component that must be repaired. Any digital photograph or video required under this paragraph can also be used to meet the requirements under paragraph (c)(15)(ii)(E) of this section, as long as the photograph or video is taken with the optical gas imaging instrument, includes the date and the latitude and longitude are either imbedded or visible in the picture.	
(10) Number and type of fugitive emission components placed on delay of repair and explanation for each delay of repair.	О
(11) The date of successful repair of the fugitive emissions component.	tbd
(12) Instrumentation used to resurvey a repaired fugitive emissions component that could not be repaired during the initial fugitive emissions finding.	FLIR GF320
(iii) For the collection of fugitive emissions components at a compressor station, if a monitoring survey is waived under §60.5397a(g)(5), you must maintain records of the average calendar month temperature, including the source of the information, for each calendar month of the quarterly monitoring period for which the monitoring survey was waived.	No Compressor Stations

Leech 16-34-9 1H Pad

Location Description Tag023 - Kinray regulator vent, compressor suction strubber Tag024 - Murphy level controller, compressor strubber Tag025 - Murphy level controller, compressor strubber Tag026 - Murphy level controller, compressor Tag026 - Murphy level controller, compressor Tag026 - Murphy level controller, compressor Tag026 - Enardo, tank battery	Date of Lask IR Survey	Repair/Replacement Task	Date of Leak Repair	Repair Verification Date	(IR Camera or Soap and to be on Delay of Repair Bubble) (DOR)	to be on Delay of Repair	DOR Reason Description	DOR Repair Date	Notes
g823 - Kinray regulator vent, compressor tilon Wales - Murphy level controller, compressor ubber - Murphy level controller, compressor ubber - Warphy level controller, compressor ubber - Warphy level controller, compressor									
rubber 19824 - Murphy level tontroller, compressor 1985 - Murphy level tontroller, compressor 1985 - Murphy level tontroller, compressor 1985 - Murphy level tontroller, compressor 1986 - Murphy level tontroller, compressor 1986 - Murphy level tontroller, compressor	7102/01/2		10/2/2017	10/2/2017	IR Camera				
19825. Murphy level controller, compressor Tubber Tubber Tubber Tubber Siglenardol - enardo, tank battery	5/30/2017								
agaza - Murphy level controller, compressor crubber aglenardol - enardo, tank battery	5/30/2017		10/26/2017	10/26/2017	Soap and Bubble				
'ag(enardo) - enardo, tank battery	5/30/2017		6/9/2017		IR Camera				
	5/30/2017 N/A		N/A					- Line	No combustor installed; normal venting
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Requirement	Comment/Answer
Tapstone Energy	
100 East Main Street	na
Oklahoma City, OK 73104	
Mark 24-34-9 2H	Harper County, KS; Well #130485
37.05124N. 98.25319W	
(A) Date of the survey.	30-May-17
(B) Beginning and end time of the survey.	11:25am-11:50am
(C) Name of operator(s) performing survey. You must note the training and experience of the operator.	Greg Stroscher
(D) Monitoring instrument used.	FLIR GF320
(E) When optical gas imaging is used to perform the survey, one or more digital photographs or videos, captured from the optical gas imaging instrument used for conduct of monitoring, of each required monitoring survey being performe. The digital photograph must include the date the photograph was taken and the latitude and longitude of the collection fugitive emissions components at a well site or collection of fugitive emissions components at a compressor station	19836jpg Tag835jpg
imbedded within or stored with the digital file. As an alternative to imbedded latitude and longitude within the digital file, the digital photograph or video may consist of an image of the monitoring survey being performed with a separately operating GPS device within the same digital picture or video, provided the latitude and longitude output of the GPS unit can be clearly read in the digital image.	
(F) Fugitive emissions component identification when Method 21 is used to perform the monitoring survey.	Not Applicable
(G) Ambient temperature, sky conditions, and maximum wind speed at the time of the survey.	76°F, wind 6mph SW
(H) Any deviations from the monitoring plan or a statement that there were no deviations from the monitoring plan.	none
(I) Documentation of each fugitive emission, including the information specified in paragraphs (c)(15)(ii)(!)(1) through	Tag836 - Kimray regulator vent, compressor suction
(12) of this section.	Tag835 - Murphy level controler, compressor scrubber
(1) Location.	37.05124N, 98.25319W
(2) Any deviations from the monitoring plan or a statement that there were no deviations from the monitoring plan.	No deviations from monitoring plan
(3) Number and type of components for which fugitive emissions were detected.	2 - regulator, level controler
(4) Number and type of difficult-to-monitor and unsafe-to-monitor fugitive emission components monitored.	0
(5) Instrument reading of each fugitive emissions component that requires repair when Method 21 is used for monitoring.	Not Applicable
(6) Number and type of fugitive emissions components that were not repaired as required in §60.5397a(h).	0 -
(7) Number and type of components that were tagged as a result of not being repaired during the monitoring survey when the fugitive emissions were initially found as required in §60.5397a(h)(3)(ii).	2
(8) If a fugitive emissions component is not tagged, a digital photograph or video of each fugitive emissions component that could not be repaired during the monitoring survey when the fugitive emissions were initially found as required in \$60.5397a(h)(3)(ii). The digital photograph or video must clearly identify the location of the component that must be repaired. Any digital photograph or video required under this paragraph can also be used to meet the requirements under paragraph (c)(15)(ii)(E) of this section, as long as the photograph or video is taken with the optical gas imaging instrument, includes the date and the latitude and longitude are either imbedded or visible in the picture.	
(9) Repair methods applied in each attempt to repair the fugitive emissions components.	tbd
(10) Number and type of fugitive emission components placed on delay of repair and explanation for each delay of repair.	0
(11) The date of successful repair of the fugitive emissions component.	tbd
(12) Instrumentation used to resurvey a repaired fugitive emissions component that could not be repaired during the initial fugitive emissions finding.	FLIR GF320
(iii) For the collection of fugitive emissions components at a compressor station, if a monitoring survey is waived under §60.5397a(g)(5), you must maintain records of the average calendar month temperature, including the source of the information, for each calendar month of the quarterly monitoring period for which the monitoring survey was waived.	No Compressor Stations

Mark 25-34-9 2H Pad

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S, FOOT 2017 Replace & timery Pic wable 1907.25/0017 1907		Location Description	Repair/Replacement Task	Date of Leak Repair		(IR Camera or Soap and Bubbje)	Date leak is determined to be on Delay of Repair (DOR)	DOR Reason Description	DOR Repair Date	Notes
7107/05/20 7107/05/20	1	fag836 - Kimray regulator vent, compressor	Replaced Kinnay PR valve	10/22/2017		Soap and Bubble				
	1	ag835 - Murphy level controler, compressor		7100/90/01	10/36/01	Soap and Bubble				
		crubber		10/87/01/	10/20/201					
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Requirement	Comment/Answer
Tapstone Energy	
100 East Main Street	na
Oklahoma City, OK 73104	
Salsberry 17-34-7 1H	Harper County, KS; Well #130462
37.08017N. 98.10610W	<u> </u>
(A) Date of the survey.	30-May-17
B) Beginning and end time of the survey.	9:30am-10:00am
C) Name of operator(s) performing survey. You must note the training and experience of the operator.	Greg Stroscher
D) Monitoring instrument used.	FLIR GF320
(E) When optical gas imaging is used to perform the survey, one or more digital photographs or videos, captured fro the optical gas imaging instrument used for conduct of monitoring, of each required monitoring survey being perform. The digital photograph must include the date the photograph was taken and the latitude and longitude of the collectic fugitive emissions components at a compressor station imbedded within or stored with the digital file. As an alternative to imbedded latitude and longitude within the digital file, the digital photograph or video may consist of an image of the monitoring survey being performed with a separately operating GPS device within the same digital picture or video, provided the latitude and longitude output of the GPS unit can be clearly read in the digital image.	Tag839.jpg Tag840.jpg Tag806.jpg
F) Fugitive emissions component identification when Method 21 is used to perform the monitoring survey.	Not Applicable
G) Ambient temperature, sky conditions, and maximum wind speed at the time of the survey.	70°F, wind 3mph NE
(H) Any deviations from the monitoring plan or a statement that there were no deviations from the monitoring plan.	none
(i) Documentation of each fugitive emission, including the information specified in paragraphs (c)(15)(ii)(1)(1) through (12) of this section.	Tag804 - Kimray regulator vent, compressor Tag839 - Murphy level controler, compressor Tag840 - Murphy level controler, compressor Tag806 - compression fittings, controler
1) Location.	37.08017N, 98.10610W
2) Any deviations from the monitoring plan or a statement that there were no deviations from the monitoring plan.	No deviations from monitoring plan
(3) Number and type of components for which fugitive emissions were detected.	4-Kmray regulator, Murphy Level Controller, Murphy Level Controller, compression fittings
(4) Number and type of difficult-to-monitor and unsafe-to-monitor fugitive emission components monitored.	0
(5) Instrument reading of each fugitive emissions component that requires repair when Method 21 is used for monitoring	Not Applicable
6) Number and type of fugltive emissions components that were not repaired as required in §60.5397a(h).	0
(7) Number and type of components that were tagged as a result of not being repaired during the monitoring survey when the fugitive emissions were initially found as required in §60.5397a(h)(3)(ii).	4
(8) If a fugitive emissions component is not tagged, a digital photograph or video of each fugitive emissions component that could not be repaired during the monitoring survey when the fugitive emissions were initially found as required In §60.5397a(h)(3)(ii). The digital photograph or video must clearly identify the location of the component that must be repaired. Any digital photograph or video required under this paragraph can also be used to meet the requirements under paragraph (c)(15)(ii)(E) of this section, as long as the photograph or video is taken with the optical gas imaging instrument, includes the date and the latitude and longitude are either imbedded or visible in the picture.	
(10) Number and type of fugitive emission components placed on delay of repair and explanation for each delay of repair.	0
(11) The date of successful repair of the fugitive emissions component.	tbd
(12) Instrumentation used to resurvey a repaired fugitive emissions component that could not be repaired during the Initial fugitive emissions finding.	FLIR GF320
(iii) For the collection of fugitive emissions components at a compressor station, if a monitoring survey is waived under §60.5397a(g)(5), you must maintain records of the average calendar month temperature, including the source of the information, for each calendar month of the quarterly monitoring period for which the monitoring survey was waived.	No Compressor Stations



Requirement	Comment/Answer
Tapstone Energy	
100 East Main Street	na
Oklahoma City, OK 73104 Salsberry 20-34-7 1H	
37.08017N, 98.10610W	Harper County, KS; Well #130463
(A) Date of the survey.	30-May-17
(B) Beginning and end time of the survey.	10:00am - 10:30am
(C) Name of operator(s) performing survey. You must note the training and experience of the operator.	Greg Stroscher
(D) Monitoring instrument used.	FLIR GF320
fugitive emissions components at a well site or collection of fugitive emissions components at a compressor station imbedded within or stored with the digital file. As an alternative to imbedded latitude and longitude within the digital fi	B05.jpg Tag841.jpg Tag842.jpg Tag807.jpg Tag808.jpg Tag809.jpg Tag810.jpg Tag811.jpg
(F) Fugitive emissions component identification when Method 21 is used to perform the monitoring survey.	Not Applicable
(G) Ambient temperature, sky conditions, and maximum wind speed at the time of the survey.	70°F, wind 3mph NE
(H) Any deviations from the monitoring plan or a statement that there were no deviations from the monitoring plan.	none
(I) Documentation of each fugitive emission, including the information specified in paragraphs (c)(15)(ii)(l)(1) through (12) of this section.	Tag805 - Kimray regulator vent, compressor suction Tag841 - Murphy level controler, compressor Tag842 - Murphy level controler, compressor Tag807 - compression fittings, controller Tag(enardo) - enardo, oil tank battery Tag808 - thief hatch, oil tank 2 Tag809 - thief hatch, water tank 2 Tag810 - thief hatch, water tank 1 Tag811 - thief hatch, oil tank 1
(1) Location.	37.08017N, 98.10610W
(2) Any deviations from the monitoring plan or a statement that there were no deviations from the monitoring plan.	No deviations from monitoring plan
(3) Number and type of components for which fugitive emissions were detected.	9- Murphy Level Controllers, Thief Hatch's, enardo, Kimray regul compression fittings
(4) Number and type of difficult-to-monitor and unsafe-to-monitor fugitive emission components monitored.	0
(5) instrument reading of each fugitive emissions component that requires repair when Method 21 is used for monitoring.	Not Applicable
	Not Applicable
(6) Number and type of fugitive emissions components that were not repaired as required in §60.5397a(h).	0
(7) Number and type of components that were tagged as a result of not being repaired during the monitoring survey when the fugitive emissions were initially found as required in §60.5397a(h)(3)(ii).	7 - Tag805, Tag841, Tag842, Tag807, Tag(enardo, Tag810, Tag81
(8) If a fugitive emissions component is not tagged, a digital photograph or video of each fugitive emissions component that could not be repaired during the monitoring survey when the fugitive emissions were initially found as required in	g808repair.jpg Tag809repair.jpg
(10) Number and type of fugitive emission components placed on delay of repair and explanation for each delay of	0
repair. (11) The date of successful repair of the fugitive emissions component.	30-May-17
(17) The date of succession repair of the rightive emissions component. (12) Instrumentation used to resurvey a repaired fugitive emissions component that could not be repaired during the Initial fugitive emissions finding.	FLIR GF320
(iii) For the collection of fugitive emissions components at a compressor station, if a monitoring survey is waived under \$60.5397a(g)(5), you must maintain records of the average calendar month temperature, including the source of the information, for each calendar month of the quarterly monitoring period for which the monitoring survey was waived.	No Compressor Stations

Date of Lask
Tag804 - Kimray regulator vent, compressor \$\sigma 3/2017
7.105.40E/2
5/30/2017 6/37/2017 6/37/2017 6/37/2017 6/37/2017 5/30/2017 6/37/2
5/30/2017
5/39/2017
5/30/2017



Requirement	Comment/Answer
Tapstone Energy	
100 East Main Street	na
Oklahoma City, OK 73104	
Sylvia 23-34-9 1H	Harper County, KS; Well #130487
37.06572N, 98.25437W	
(A) Date of the survey.	30-May-17
(B) Beginning and end time of the survey.	10:50am-11:25pm
(C) Name of operator(s) performing survey. You must note the training and experience of the operator.	Greg Stroscher
(D) Monitoring instrument used.	FLIR GF320
fugitive emissions components at a well site or collection of fugitive emissions components at a compressor station imbedded within or stored with the digital file. As an alternative to imbedded latitude and longitude within the digital file to distribute the digital file to the digital file.	1812.jpg
(F) Fugitive emissions component identification when Method 21 is used to perform the monitoring survey.	Not Applicable
(G) Ambient temperature, sky conditions, and maximum wind speed at the time of the survey.	74°F, wind 3mph SW
(H) Any deviations from the monitoring plan or a statement that there were no deviations from the monitoring plan.	none
(I) Documentation of each fugitive emission, including the information specified in paragraphs (c)(15)(ii)(I)(1) through (12) of this section.	Tag812 - Kimray regulator vent, compressor suction Tag837 - Murphy level controler, compressor scrubber Tag838 - Murphy level controler, compressor scrubber Tag813 - 1"union, verticle seperator Tag(enardo) - enardo, tank battery
(1) Location.	37.06572N, 98.25437W
(2) Any deviations from the monitoring plan or a statement that there were no deviations from the monitoring plan.	No deviations from monitoring plan
(3) Number and type of components for which fugitive emissions were detected.	5 - regulator, level controlers, 1"union, enardo
(4) Number and type of difficult-to-monitor and unsafe-to-monitor fugitive emission components monitored.	0
(5) Instrument reading of each fugitive emissions component that requires repair when Method 21 is used for monitoring	
(6) Number and type of fugitive emissions components that were not repaired as required in §60.5397a(h).	0
(7) Number and type of components that were tagged as a result of not being repaired during the monitoring survey when the fugitive emissions were initially found as required in §60.5397a(h)(3)(ii).	4
(8) If a fugitive emissions component is not tagged, a digital photograph or video of each fugitive emissions component that could not be repaired during the monitoring survey when the fugitive emissions were initially found as required in	ng813repair.jpg
(10) Number and type of fugitive emission components placed on delay of repair and explanation for each delay of repair.	0
(11) The date of successful repair of the fugitive emissions component.	30-May-17
(12) Instrumentation used to resurvey a repaired fugitive emissions component that could not be repaired during the initial fugitive emissions finding.	FLIR GF320
(iii) For the collection of fugitive emissions components at a compressor station, if a monitoring survey is waived under §60.5397a(g)(5), you must maintain records of the average calendar month temperature, including the source of the information, for each calendar month of the quarterly monitoring period for which the monitoring survey was waived.	No Compressor Stations

Sylvia 23-34-9 1H Pad

					THE RESERVE THE PERSON NAMED IN COLUMN TWO IS NOT THE PERSON OF THE PERS				
Location Description		Date of Leak IR Survey Repair/Replacement Tesk	Date of Leak Repair	Repair Verification Date	(IR Carners or Soap and to be on Delay of Repair Bubble) (DON)	to be on Delay of Repair (DOR)	DOR Reason Description	DOR Repair Date	Notes
Tag812 - Kimray regulator vent, compressor suction	5/30/2017		6/9/2017	7/14/2017	IR Camera				
aga37 - Murphy level controler, compressor		5/30/2017 Replacement	10/26/2017	10/26/2017	Soap and Bubble				Wantal American
agg38 - Murphy level controler, compressor			6/19/2017		IR Camera				
1813 - 1"union, verticle seperator		5/30/2017	5/30/2017		IR Camera				
ag(enardo) - enardo, tank battery		Flare Removal	10/31/2017	×	N/A				

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